ELSEVIER

Journal of Alloys and Compounds 217 (1995) 301

Journal of ALLOYS AND COMPOUNDS

Author Index of Volume 217

Adachi, G., 218
Agarwal, R., 59
Ahn, C.C., 185
Aigner, K., 137
Andreica, D., 258

Bae, J.-S., 52
Bala, H., 268
Balasubramaniam, R., 151
Ballini, Y., 13
Baranov, N.V., 31
Bat'ko, I., L1
Bat'ková, M., L1
Bauer, J., 128
Berkowski, M., 263
Bernard, G., 29
Binder, S., 128, 137
Blasse, G., 29
Blomberg, M.K., 123
Bohn, M., 128
Bourée-Vigneron, F., 283
Bowman, Jr., R.C., 185
Brabers, J.H.V.J., 118
Burda, I., 258
Buschow, K.H.J., 118

Chen, F.L., 226
Chen, Y., 181
Choi, J., 25
Coehoorn, R., 118
Collocott, S.J., 65
Cook, J.S., 65
Crisan, V., 258
Cristea, S., 258

de Boer, F.R., 118
Debuigne, J., 128, 137
Députier, S., 13
Dichi, E., 193
Ding, J., 108
Dominiak-Dzik, G., 263

Ekambaram, S., 104
Elidrissi Moubtassim, M.L., 176
Endo, T., 44
Eremenko, V.N., 213
Ettmayer, P., 128, 137

Fernández Guillermet, A., 69
Feufel, H., 59
Figiel, H., 157
Filippov, V.B., L1
Fitzner, K., 1
Flachbart, K., L1
Flanagan, T.B., 226
Fujii, H., 287
Fultz, B., 185

Geng, M., 90
Gołąb, S., 263
Gopalakrishnan, J., 22
Gratz, E., 157
Gray, E.M.A., 112
Groboth, G., 137
Guérin, R., 13
Guillou, A., 137
Guivarc'h, A., 13
Gurin, V.N., 123

Hareesch, M., 151
Hegde, M.S., 22
Hulliger, F., 164

Ijdo, D.J.W., 29
Ishimaru, N., 226
Iyer, P.N., 253

Jacobs, H., 38
Joubert, J.-M., 283
Jumas, J.C., 176
Jurczyk, M., 65

Kaczorowski, D., 94
Kapusta, Cs., 157
Kematick, R.J., 240
Khorujaya, V.G., 213
Kim, K.-J., 48
Kisi, E.H., 112
Kleppa, O.J., 1, 235
Kodentsov, A.A., 97
Kokubu, M., 226
Korniyenko, K.Ye., 213
Korsukova, M.M., 123
Kubota, S., 44
Kulkarni, N.K., 253
Kumar, P., 151

Latroche, M., 283
Legendre, B., 193
Lengauer, W., 128, 137
Li, J., 161
Lindbaum, A., 157
Llanos, J., 250
Luo, C.H., 185

Machida, K., 218
Malik, M.A., 268
Martsenyuk, P.S., 213
McCormick, P.G., 108
Merisalo, M.J., 123
Meschel, S.V., 235
Miller, G.J., 5
Missell, F.P., 273
Morales, J., 176
Morgant, G., 193
Mujica, C., 250
Mulder, F.M., 118
Murase, K., 218
Myers, C.E., 240

Nasar, A., 167
Neiva, A.C., 273
Niewa, R., 38
Noël, H., 94

Ohashi, K., 268
Ohira, K., 226
Olinici, A., 258
Olivier-Fourcade, J., 176
Orimo, S., 287

Paderno, Yu.B., L1
Pajączkowska, A., 263
Pan, C., 161
Park, C.-N., 25
Patil, K.C., 104
Percheron-Guégan, A., 283
Pirogov, A.N., 31
Pisarski, W.A., 263
Plaisier, J.R., 29
Popescu, V., 258
Potel, M., 94
Pyun, S.-I., 52

Rama Rao, G.V., 200
Rao, G.V.N., 200
Ryba-Romanowski, W., 263

Sakamoto, Y., 226
Schulz, R., 295
Shah, A.H., 240
Shicevalova, N.Yu., L1
Shimada, M., 44
Shlyk, L., 94
Sokólska, I., 263
Sommer, F., 59
Song, M., 148
Street, R., 108
Ström-Olsen, J.O., 245, 295
Subramanya Herle, P., 22
Sumiyama, K., 48
Surya Narayana, D.S., 200
Suzuki, K., 48
Szymura, S., 268

Takizawa, H., 44
Tessier, P., 295
Thiel, R.C., 118
Tie, S., 148
Tirado, J.L., 176
Troć, R., 94
Tschiptschin, A.P., 273

Van Beek, J.A., 97
Van Loo, F.J.J., 97
Varadaraju, U.V., 200
Vasanthacharya, N.Y., 22
Venkadesan, S., 200
Vernes, A., 258

Wagner, Th., L1
Wildner, M., 209
Williams, J.S., 181
Witham, C.K., 185
Wypartowicz, J., 1

Yoshino, T., 287
Yu, Y., 148

Zaluska, A., 245, 295
Zaluski, L., 245, 295
Zhang, S., 148
Zhuang, Y., 161

Elsevier Science S.A.

ELSEVIER

Journal of Alloys and Compounds 217 (1995) 303–306

Journal of ALLOYS AND COMPOUNDS

Subject Index of Volume 217

Absorption
absorption of hydrogen by palladium–nickel–rhodium ternary alloys, 226
Alkali metal amides
synthesis and crystal structure of alkali metal oxo nitrido dimetallates(VI), $A_6[M_2N_4O_3]$ (A≡K, Rb, Cs; M≡Mo, W), 38
Amorphous hydride phase
reactive mechanical grinding of ZrNi under various partial pressures of hydrogen, 287
Anisotropy
anisotropy of optical properties of $SrLaAlO_4$ and $SrLaAlO_4$:Nd, 263
Antiferromagnetism
on new Mo_2FeB_2-type representatives Ln_2Pt_2In, 164
Arc melting
phase equilibria in the systems Ti–C–N, Zr–C–N and Hf–C–N, 128

Ball milling
catalytic effect of Pd on hydrogen absorption in mechanically alloyed Mg_2Ni, $LaNi_5$ and FeTi, 295
Band structure calculations
^{155}Gd Mössbauer effect and magnetic properties of novel RT_2B_2C compounds with T≡Ni, Co, 118
Barium
synthesis of $YBa_2Cu_3O_7$ through different gel routes, 200
Binders
performance of metal hydride electrodes with organosilicon as a binder, 25
Boron vacancies
single-crystal X-ray diffraction study of NdB_6, EuB_6 and YbB_6, 123

Cadmium
study of the ternary system cadmium–germanium–tellurium: phase equilibria in the ternary system, 193
Calorimetric measurements
calorimetric measurements of liquid La–Mg, Mg–Yb and Mg–Y alloys, 59
Charge asphericity
single-crystal X-ray diffraction study of NdB_6, EuB_6 and YbB_6, 123
Chlorination
recovery of rare metals from scrap of rare earth intermetallic material by chemical vapour transport, 218
Composite particle
reactive mechanical grinding of ZrNi under various partial pressures of hydrogen, 287
Configurational entropy
effect of hydrogen on the stabilities of ordered structures in Pd_3Mn, 151
Copper
phase equilibria in the Cu–Fe–Ti system at 1123 K, 97
electrochemical lithium insertion into $In_{16}Sn_4S_{32}$ and $Cu_4In_{20}S_{32}$ spinel sulphides, 176
synthesis of $YBa_2Cu_3O_7$ through different gel routes, 200
Copper iron telluride
synthesis and characterization of a new copper iron telluride, 250
Crystal chemistry
preparation and crystal structure investigation of $Sr_2Co(SeO_3)_3$, 209
Crystal field
^{155}Gd Mössbauer effect and magnetic properties of novel RT_2B_2C compounds with T≡Ni, Co, 118
Crystalline hydride phase
reactive mechanical grinding of ZrNi under various partial pressures of hydrogen, 287
Crystal structure
synthesis and crystal structure of alkali metal oxo nitrido dimetallates(VI), $A_6[M_2N_4O_3]$ (A≡K, Rb, Cs; M≡Mo, W), 38
single-crystal X-ray diffraction study of NdB_6, EuB_6 and YbB_6, 123
preparation and crystal structure investigation of $Sr_2Co(SeO_3)_3$, 209
Cycle lifetime
electrochemical characteristics of Ni–Pd-coated $MmNi_5$-based alloy powder for nickel–metal hydrides batteries, 90

Density of states
electronic structure of Y_2M_{17} intermetallic compounds, 258
Discharge capacity
electrochemical characteristics of Ni–Pd-coated $MmNi_5$-based alloy powder for nickel–metal hydrides batteries, 90

Electrical resistivity
electrical resistivity and superconductivity of LaB_6 and LuB_{12}, L1
Electric field gradient
^{155}Gd Mössbauer effect and magnetic properties of novel RT_2B_2C compounds with T≡Ni, Co, 118
Electrochemical corrosion
electrochemical corrosion characteristics of $RETiCo_{11}$ compounds, 268
Electrochemical intercalation reaction
electrochemical lithium intercalation reaction of anodic vanadium oxide film, 52
Electrochemical lithium insertion
electrochemical lithium insertion into $In_{16}Sn_4S_{32}$ and $Cu_4In_{20}S_{32}$ spinel sulphides, 176
Electronic structure
electronic structure of Y_2M_{17} intermetallic compounds, 258
Electron probe microanalysis
solid state phase equilibria in the Ni–Al–As system, 13

Elsevier Science S.A.

Energy migration
luminescence of Eu^{3-} in $La_{1-x}Eu_xTa_7O_{19}$ ($0<x\leqslant 1$) solid solution, 44
Energy transfer
spectral characteristics of Er^{3+}-activated and Ce^{3+}-sensitized yttrium aluminium garnet laser crystals, 148
Enthalpies of formation
standard enthalpies of formation of some neodymium and gadolinium carbides, silicides and germanides by high-temperature direct-synthesis calorimetry, 235
Enthalpies of mixing
calorimetric measurements of liquid La–Mg, Mg–Yb and Mg–Y alloys, 59
Enthalpy of formation
analysis of thermochemical properties and phase stability in the zirconium–carbon system, 69
the vaporization behavior and thermodynamic stability of $V_{12}P_7(s)$ and $V_4P_3(s)$, 240

Ferromagnetism
ferromagnetic α-Mn-type Mn–Al alloys produced by mechanical alloying, 48
on new Mo_2FeB_2-type representatives Ln_2Pt_2In, 164
First order magnetic phase transition
magnetic state of $R_{1-x}Y_xCo_2$ compounds near the critical concentration, 31
Fluorescence spectra
rapid synthesis and properties of $FeVO_4$, $AlVO_4$, YVO_4 and Eu^{3+}-doped YVO_4, 104
Fused silica capsules
standard enthalpy of formation of Cu_3As and heats of mixing in the liquid systems Cu–As and Fe–As by direct combination high temperature drop calorimetry, 1

Gadolinium
standard enthalpies of formation of some neodymium and gadolinium carbides, silicides and germanides by high-temperature direct-synthesis calorimetry, 235
Gel routes
synthesis of $YBa_2Cu_3O_7$ through different gel routes, 200
Germanium
study of the ternary system cadmium–germanium–tellurium: phase equilibria in the ternary system, 193

Heat treatment
application of high energy ball milling to the production of magnetic powders from NdFeB-type alloys, 65
High energy ball milling
application of high energy ball milling to the production of magnetic powders from NdFeB-type alloys, 65
hydrogen absorption in nanocrystalline Mg_2Ni formed by mechanical alloying, 245
High-melting compounds
solid state properties of group IVB carbonitrides, 137
High temperature direct synthesis calorimetry
standard enthalpies of formation of some neodymium and gadolinium carbides, silicides and germanides by high-temperature direct-synthesis calorimetry, 235
High temperature drop calorimetry
standard enthalpy of formation of Cu_3As and heats of mixing in the liquid systems Cu–As and Fe–As by direct combination high temperature drop calorimetry, 1
Homogeneity range
phase equilibria in the systems Ti–C–N, Zr–C–N and Hf–C–N, 128
Hot-pressed alloys
phase equilibria in the systems Ti–C–N, Zr–C–N and Hf–C–N, 128
Hydrides
formation of metal hydrides by mechanical alloying, 181
neutron diffraction study of $Zr(Cr_{0.6}Ni_{0.4})_2D_{3.3}$, 283
Hydriding reactions
formation of metal hydrides by mechanical alloying, 181
Hydrogen
absorption of hydrogen by palladium–nickel–rhodium ternary alloys, 226
Hydrogen absorption
stability of the hydrogen absorption and desorption plateaux in $LaNi_5$–H. Part 3: experimental observations of compositional inhomogeneities due to temperature gradients, 112
hydrogen absorption in nanocrystalline Mg_2Ni formed by mechanical alloying, 245
catalytic effect of Pd on hydrogen absorption in mechanically alloyed Mg_2Ni, $LaNi_5$ and FeTi, 295
Hydrogen desorption
stability of the hydrogen absorption and desorption plateaux in $LaNi_5$–H. Part 3: experimental observations of compositional inhomogeneities due to temperature gradients, 112
Hydrogen induced ordering
effect of hydrogen on the stabilities of ordered structures in Pd_3Mn, 151

Indium
electrochemical lithium insertion into $In_{16}Sn_4S_{32}$ and $Cu_4In_{20}S_{32}$ spinel sulphides, 176
Infra red
rapid synthesis and properties of $FeVO_4$, $AlVO_4$, YVO_4 and Eu^{3+}-doped YVO_4, 104
Intermetallic compounds
electronic structure of Y_2M_{17} intermetallic compounds, 258
Internal energy
effect of hydrogen on the stabilities of ordered structures in Pd_3Mn, 151
Iron
phase equilibria in the Cu–Fe–Ti system at 1123 K, 97
Iron-rich alloys
phase equilibria in the Fe-rich alloys of the ternary system Nd–Fe–Si at 500 °C, 161
Itinerant magnetism
magnetic state of $R_{1-x}Y_xCo_2$ compounds near the critical concentration, 31
IVB carbonitrides
solid state properties of group IVB carbonitrides, 137

Jahn–Teller effect
preparation and crystal structure investigation of $Sr_2Co(SeO_3)_3$, 209

Kinetics
hydrogen absorption in nanocrystalline Mg_2Ni formed by mechanical alloying, 245
Knudsen effusion
the vaporization behavior and thermodynamic stability of $V_{12}P_7(s)$ and $V_4P_3(s)$, 240

Lanthanide intermetallics
on new Mo_2FeB_2-type representatives Ln_2Pt_2In, 164
Lanthanides
preparation and characterization of $TlM^{III}(SO_4)_2\cdot 4H_2O$ (M(III) ≡ Pu, Sm to Dy), 253
Laves phases
neutron diffraction study of $Zr(Cr_{0.6}Ni_{0.4})_2D_{3.3}$, 283
Liquid alloys
calorimetric measurements of liquid La–Mg, Mg–Yb and Mg–Y alloys, 59

Liquid systems
standard enthalpy of formation of Cu_3As and heats of mixing in the liquid systems Cu–As and Fe–As by direct combination high temperature drop calorimetry, 1
Luminescence
luminescence of Eu^{3-} in $La_{1-x}Eu_xTa_7O_{19}$ $(0<x\leqslant 1)$ solid solution, 44

Magnetic powders
application of high energy ball milling to the production of magnetic powders from NdFeB-type alloys, 65
Magnetic properties
mechanically alloyed $R_{11}Fe_{84}Ti_5$ with R≡N and Sm and their nitrides, 108
^{155}Gd Mössbauer effect and magnetic properties of novel RT_2B_2C compounds with T≡Ni, Co, 118
Mechanical alloying
ferromagnetic α-Mn-type Mn–Al alloys produced by mechanical alloying, 48
mechanically alloyed $R_{11}Fe_{84}Ti_5$ with R≡N and Sm and their nitrides, 108
formation of metal hydrides by mechanical alloying, 181
hydrogen absorption in nanocrystalline Mg_2Ni formed by mechanical alloying, 245
catalytic effect of Pd on hydrogen absorption in mechanically alloyed Mg_2Ni, $LaNi_5$ and FeTi, 295
Mechanosynthesis
formation of metal hydrides by mechanical alloying, 181
Metal hydride electrodes
performance of metal hydride electrodes with organosilicon as a binder, 25
Metal hydrides
stability of the hydrogen absorption and desorption plateaux in $LaNi_5$–H. Part 3: experimental observations of compositional inhomogeneities due to temperature gradients, 112
the effect of tin on the degradation of $LaNi_{5-y}Sn_y$ metal hydrides during thermal cycling, 185
Mixed crystal formation
solid state chemistry of Nb_3Cl_8: Nb_3TeCl_7, mixed crystal formation, and intercalation, 5
$MmNi_5$
electrochemical characteristics of Ni–Pd-coated $MmNi_5$-based alloy powder for nickel–metal hydrides batteries, 90
Mössbauer effect
^{155}Gd Mössbauer effect and magnetic properties of novel RT_2B_2C compounds with T≡Ni, Co, 118

Neodymium
standard enthalpies of formation of some neodymium and gadolinium carbides, silicides and germanides by high-temperature direct-synthesis calorimetry, 235
Neutron diffraction
neutron diffraction study of $Zr(Cr_{0.6}Ni_{0.4})_2D_{3.3}$, 283
Nickel-metal hydride batteries
electrochemical characteristics of Ni–Pd-coated $MmNi_5$-based alloy powder for nickel–metal hydrides batteries, 90
Niobium cluster halides
solid state chemistry of Nb_3Cl_8: Nb_3TeCl_7, mixed crystal formation, and intercalation, 5
Nitrides
mechanically alloyed $R_{11}Fe_{84}Ti_5$ with R≡N and Sm and their nitrides, 108
Nuclear magnetic resonance
rapid synthesis and properties of $FeVO_4$, $AlVO_4$, YVO_4 and Eu^{3+}-doped YVO_4, 104

Optical properties
anisotropy of optical properties of $SrLaAlO_4$ and $SrLaAlO_4$:Nd, 263
Organosilicon
performance of metal hydride electrodes with organosilicon as a binder, 25
Oxo nitrido dimetallates(VI)
synthesis and crystal structure of alkali metal oxo nitrido dimetallates(VI), $A_6[M_2N_4O_3]$ (A≡K, Rb, Cs; M≡Mo, W), 38

Palladium catalysis
catalytic effect of Pd on hydrogen absorption in mechanically alloyed Mg_2Ni, $LaNi_5$ and FeTi, 295
Partial molar free energy
investigations of the thermodynamic properties of Te-saturated ZnSe–ZnTe solid solutions, 167
Permanent magnets
electrochemical corrosion characteristics of $RETiCo_{11}$ compounds, 268
Phase diagrams
the scandium–ruthenium phase diagram, 213
phase diagram of the Pr–Fe–B system, 273
Phase equilibria
phase equilibria in the Cu–Fe–Ti system at 1123 K, 97
phase equilibria in the systems Ti–C–N, Zr–C–N and Hf–C–N, 128
phase equilibria in the Fe-rich alloys of the ternary system Nd–Fe–Si at 500 °C, 161
study of the ternary system cadmium–germanium–tellurium: phase equilibria in the ternary system, 193
Phase stability
analysis of thermochemical properties and phase stability in the zirconium–carbon system, 69
Phase transitions
solid state properties of group IVB carbonitrides, 137
Plutonium(III)
preparation and characterization of $TlM^{III}(SO_4)_2\cdot 4H_2O$ (M(III)≡Pu, Sm to Dy), 253
Preferential crystallization
reactive mechanical grinding of ZrNi under various partial pressures of hydrogen, 287

Quenching
luminescence of Eu^{3-} in $La_{1-x}Eu_xTa_7O_{19}$ $(0<x\leqslant 1)$ solid solution, 44

Rapid synthesis
rapid synthesis and properties of $FeVO_4$, $AlVO_4$, YVO_4 and Eu^{3+}-doped YVO_4, 104
Rare-earth hexaborides
single-crystal X-ray diffraction study of NdB_6, EuB_6 and YbB_6, 123
Rare earths
recovery of rare metals from scrap of rare earth intermetallic material by chemical vapour transport, 218
Reactive ball milling
formation of metal hydrides by mechanical alloying, 181
Reactive mechanical grinding
reactive mechanical grinding of ZrNi under various partial pressures of hydrogen, 287
Recovery
recovery of rare metals from scrap of rare earth intermetallic material by chemical vapour transport, 218
Ruthenium
the scandium–ruthenium phase diagram, 213

Scandium
the scandium–ruthenium phase diagram, 213
Scanning electron microscopy
solid state phase equilibria in the Ni–Al–As system, 13
Semiconductors
synthesis of new transition metal nitrides, MWN_2 (M ≡ Mn, Co, Ni), 22
Semimetallics
synthesis of new transition metal nitrides, MWN_2 (M ≡ Mn, Co, Ni), 22
Sensitized yttrium aluminium garnet
spectral characteristics of Er^{3+}-activated and Ce^{3+}-sensitized yttrium aluminium garnet laser crystals, 148
Single crystal growth
synthesis and crystal structure of a novel uranium oxytelluride $U_4O_4Te_3$, 94
Solid solutions
investigations of the thermodynamic properties of Te-saturated ZnSe–ZnTe solid solutions, 167
Solid state chemistry
solid state chemistry of Nb_3Cl_8: Nb_3TeCl_7, mixed crystal formation, and intercalation, 5
Solid state phase equilibria
solid state phase equilibria in the Ni–Al–As system, 13
Solid state properties
solid state properties of group IVB carbonitrides, 137
Spectral characteristics
spectral characteristics of Er^{3+}-activated and Ce^{3+}-sensitized yttrium aluminium garnet laser crystals, 148
Spinel sulphides
electrochemical lithium insertion into $In_{16}Sn_4S_{32}$ and $Cu_4In_{20}S_{32}$ spinel sulphides, 176
Spin fluctuations
magnetic state of $R_{1-x}Y_xCo_2$ compounds near the critical concentration, 31
thermal expansion of YMn_2H_x compounds, 157
Spontaneous magnetostriction
thermal expansion of YMn_2H_x compounds, 157
Stability
stability of the hydrogen absorption and desorption plateaux in $LaNi_5$–H. Part 3: experimental observations of compositional inhomogeneities due to temperature gradients, 112
Statistical thermodynamics
effect of hydrogen on the stabilities of ordered structures in Pd_3Mn, 151
Structure refinement
synthesis and crystal structure of a novel uranium oxytelluride $U_4O_4Te_3$, 94
Sulphates
preparation and characterization of $TlM^{III}(SO_4)_2 \cdot 4H_2O$ (M(III) ≡ Pu, Sm to Dy), 253
Superconductivity
electrical resistivity and superconductivity of LaB_6 and LuB_{12}, L1
Susceptibility measurements
electrical resistivity and superconductivity of LaB_6 and LuB_{12}, L1
Synthesis
synthesis of $YBa_2Cu_3O_7$ through different gel routes, 200
synthesis and characterization of a new copper iron telluride, 250

Tellurium
study of the ternary system cadmium–germanium–tellurium: phase equilibria in the ternary system, 193
Ternary alloys
absorption of hydrogen by palladium–nickel–rhodium ternary alloys, 226
Ternary systems
phase equilibria in the Fe-rich alloys of the ternary system Nd–Fe–Si at 500 °C, 161
phase diagram of the Pr–Fe–B system, 273
Thallium
preparation and characterization of $TlM^{III}(SO_4)_2 \cdot 4H_2O$ (M(III) ≡ Pu, Sm to Dy), 253
Thermal analysis
study of the ternary system cadmium–germanium–tellurium: phase equilibria in the ternary system, 193
Thermal cycling
the effect of tin on the degradation of $LaNi_{5-y}Sn_y$ metal hydrides during thermal cycling, 185
Thermal expansion
thermal expansion of YMn_2H_x compounds, 157
Thermochemical properties
analysis of thermochemical properties and phase stability in the zirconium–carbon system, 69
Thermodynamics
investigations of the thermodynamic properties of Te-saturated ZnSe–ZnTe solid solutions, 167
Tin
the effect of tin on the degradation of $LaNi_{5-y}Sn_y$ metal hydrides during thermal cycling, 185
Titanium
phase equilibria in the Cu–Fe–Ti system at 1123 K, 97
Transition metal nitrides
synthesis of new transition metal nitrides, MWN_2 (M ≡ Mn, Co, Ni), 22

Uranium oxytelluride
synthesis and crystal structure of a novel uranium oxytelluride $U_4O_4Te_3$, 94

Vanadium oxide film
electrochemical lithium intercalation reaction of anodic vanadium oxide film, 52
Vanadium phosphides
the vaporization behavior and thermodynamic stability of $V_{12}P_7$(s) and V_4P_3(s), 240
Vapour complexes
recovery of rare metals from scrap of rare earth intermetallic material by chemical vapour transport, 218

X-ray diffraction
solid state phase equilibria in the Ni–Al–As system, 13
rapid synthesis and properties of $FeVO_4$, $AlVO_4$, YVO_4 and Eu^{3+}-doped YVO_4, 104
single-crystal X-ray diffraction study of NdB_6, EuB_6 and YbB_6, 123
neutron diffraction study of $Zr(Cr_{0.6}Ni_{0.4})_2D_{3.3}$, 283
X-ray powder diffraction
preparation and characterization of $TlM^{III}(SO_4)_2 \cdot 4H_2O$ (M(III) ≡ Pu, Sm to Dy), 253

Yellow zirconate luminescence
yellow zirconate luminescence in $Ca_3ZrSi_2O_9$, 29
Yttrium
synthesis of $YBa_2Cu_3O_7$ through different gel routes, 200

Zirconium–carbon system
analysis of thermochemical properties and phase stability in the zirconium–carbon system, 69